

WHAT IS CLAIMED IS:

1. A hydrogen storage tank comprising:

a housing; and

a composite contained in the housing, the composite  
5 including a granular hydrogen absorbing alloy powder and  
a flaky metal powder.

2. The hydrogen storage tank as claimed in claim 1,  
wherein the flaky metal powder is made of aluminum.

3. The hydrogen storage tank as claimed in claim 1,  
10 further comprising a heat exchanger having a fin,

wherein the composite is accommodated in the housing  
to be in contact with the fin.

4. The hydrogen storage tank as claimed in claim 1,  
further comprising:

15 a heat exchanger having a fin; and

a hydrogen absorbing alloy molded body molded out of  
a porous metal molding in which the composite is filled  
in voids thereof,

wherein the hydrogen absorbing alloy molded body is  
20 accommodated in the housing to be in contact with the fin.

5. The hydrogen storage tank as claimed in claim 1,  
wherein the granular hydrogen absorbing alloy comprises  
a rare-earth alloy having a particle size no larger than  
500 $\mu$ m.

25 6. The hydrogen storage tank as claimed in claim 5,

wherein the granular hydrogen absorbing alloy comprises a  $\text{MmNi}_5$  alloy.

7. The hydrogen storage tank as claimed in claim 1, wherein the flaky metal powder has a mean particle size of  $80\mu\text{m}$  and a thickness in a range of from  $0.5\mu\text{m}$  to  $2.0\mu\text{m}$ .

8. The hydrogen storage tank as claimed in claim 7, wherein the flaky metal powder is composed within the composite in amount in a range of from 2% by volume to 11% by volume.

9. The hydrogen storage tank as claimed in claim 8, wherein the flaky metal powder is composed within the composite in amount in a range of from 3.5% by volume to 10% by volume.

10. The hydrogen storage tank as claimed in claim 4, wherein the porous metal molding is formed of at least one of Ni, Cu and Al.

11. The hydrogen storage tank as claimed in claim 1, wherein the granular hydrogen absorbing alloy comprises at least one of  $\text{MmNi}_5$  alloy, Mg-Ni type alloy and a Ti-Mn type alloy.

12. A hydrogen absorbing alloy molded body comprising:  
a porous metal molding;  
a composite including a granular hydrogen absorbing alloy powder and a flaky metal powder filled within the porous metal molding.